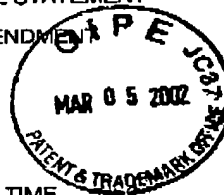


PATENT OFFICE MAIL ROOM—PLEASE PLACE THE MAIL ROOM DATE STAMP ON THIS CARD TO INDICATE RECEIPT BY THE PATENT OFFICE OF THE PAPER IDENTIFIED BELOW AND RETURN THE SAME TO US.

APPLICATION S.N. 10/014,361 FILED December 11, 2001

P2000J098
TYPE OF PAPER:

- | | |
|---|---|
| <input type="checkbox"/> APPEAL BRIEF | <input type="checkbox"/> PUBLICATION FEE |
| <input type="checkbox"/> AMENDMENT | <input type="checkbox"/> INFO. DISCLOSURE STATEMENT |
| <input type="checkbox"/> ASSIGNMENT RECORDAL | <input type="checkbox"/> PRELIMINARY AMENDMENT |
| <input type="checkbox"/> DRAWINGS | <input type="checkbox"/> PCT DEMAND |
| <input type="checkbox"/> FINAL FEE | <input type="checkbox"/> PCT NATIONAL |
| <input type="checkbox"/> NOTICE OF APPEAL | <input type="checkbox"/> REPLY BRIEF |
| <input checked="" type="checkbox"/> SUBMISSION OF DECLARATION | <input type="checkbox"/> REQ. FOR EXT. OF TIME |
| | <input type="checkbox"/> OTHER _____ |



FEB 7 2002

CJB:gsf 800-846

ExxonMobil Research
and Engineering Company
1545 Route 22 East, P. O. Box 900
Annandale, NJ 08801-0900

ExxonMobil
*Research and
Engineering*

July 11, 2005

Mail Stop EBC
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450



Sir:

Pursuant to the authority delegated to me by the President of ExxonMobil Research and Engineering Company ("EMRE") (Customer No. 27810), I, Michael A. Nametz, hereby delegate to the following individuals (registration numbers in parentheses):

Leandro Arechederra	(52,457)	Gerald D. Malpass	(40,079)
Estelle C. Bakun	(35,054)	Mark D. Marin	(50,842)
Glenn T. Barrett	(38,705)	Robert A. Migliorini	(50,262)
Catherine L. Bell	(35,444)	William G. Muller	(32,281)
Keith A. Bell	(30,023)	Jack B. Murray	(26,776)
William R. H. Clark	(41,530)	Michael A. Nametz	(28,452)
Douglas J. Collins	(43,561)	Kelly A. Nowak	(35,620)
Michael A. Cromwell	(42,449)	Richard F. Phillips	(30,097)
Carl M. Fick	(33,383)	J. Paul Plummer	(40,775)
Andrew B. Griffis	(36,336)	Tom F. Pruitt	(30,317)
Gerald L. Harris	(36,158)	Paul E. Purwin	(29,203)
Gerard J. Hughes	(41,855)	Frank E. Reid	(37,918)
Rick F. James	(48,772)	C. Paige Schmidt	(38,556)
Gary P. Katz	(46,099)	Linda M. Scuorzo	(36,001)
Bradley A. Keller	(37,654)	Charles E. Smith	(32,085)
Diane L. Kilpatrick-Lee	(56,211)	Darryl M. Tyus	(40,853)
Brent R. Knight	(54,226)	Maria C. Walsh	(37,958)
Stephen P. Koch	(37,660)	Denise Y. Wolfs	(32,074)
Gary D. Lawson	(27,696)	Joseph D. Yao	(34,284)
Lucinda Lomas	(51,964)	James A. Zboray	(35,420)

the authority, without any additional approval by the President, to sign on behalf of EMRE as assignee the following documents incidental to patent prosecution before the Patent and Trademark Office and before the International Patent Examining Authority:

1. Appointment and revocation of powers of attorney;
2. Oath or Declaration filed on behalf of EMRE, or on behalf of an inventor when the inventor is not available to sign;

An ExxonMobil Subsidiary

July 11, 2005

Page 2


3. Assent of EMRE to file a reissue application;
4. Assent of EMRE to file an express abandonment;
5. Disclaimer or dedication by EMRE of one or more patent claims or of any terminal portion of the term of a patent;
6. In the case of interference proceedings, to make preliminary statements on behalf of an applicant or patentee, and to consent to concessions of priority, disclaimers of invention, and abandonments of contest, on behalf of EMRE;
7. Consent of EMRE to the addition, removal or change of inventors in patents or patent applications;
8. Statements required pursuant to 37 CFR 3.73(b).

Where required by the nature of the document executed pursuant to this delegation, the Secretary and any Assistant Secretary of EMRE are hereby authorized to affix EMRE's seal on and attest to the foregoing documents.

The signature by any individual or incumbent listed above and the affixing of EMRE's seal where required shall constitute complete and formal execution of the document by EMRE.

EXXONMOBIL RESEARCH AND ENGINEERING COMPANY

By



M. A. Nametz, Secretary

Date

July 12, 2005

I hereby certify that M. A. Nametz, who has signed the above delegation of authority, is a lawful representative of EMRE and is authorized to execute this document on behalf of EMRE, which has a place of business in Annandale, New Jersey (Post Office Address: P.O. Box 900, Annandale, New Jersey 08801-0900, U.S.A.)

By



J. R. Nacheman, Assistant Secretary

Date

July 13, 2005

(SEAL)
(071105B.doc)

RECEIVED
CENTRAL FAX CENTER

FEB 15 2006

"PATENT"

AMENDMENT TRANSMITTAL FORM

In re application of: STILIANOS G. ROUSSIS, et.al.) Before the Examiner
U. S. Serial No.: 10/014,361) Not Assigned
Filed: December 11, 2001)
For: ATMOSPHERIC EQUIVALENT TEMPERATURE) Group Art Unit
ANALYSIS) 1764

THE COMMISSIONER FOR PATENTS
Washington, D.C. 20231

Sir:

- ☒ The undersigned hereby certifies having information and a reasonable basis for belief that this correspondence will be deposited as **First-Class Mail** with the United States Postal Service in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231, on **February 7, 2002**.

Transmittal herewith is an amendment/response in the above-identified application.

Petition for extension of time pursuant to 37 CFR 1.136 and 1.137 is hereby made, if and to the extent, required. The fee for this extension of time is calculated to be \$ _____ to extend the time for filing this response until _____.

The fee for any changes in number of claims has been calculated as shown below.

CLAIMS AS AMENDED						
(1)	(2) Claims Remaining After Amendment	(3)	(4) Highest Number Previously Paid For	(5) Present Extra	(6) Rate	(7)
Total Claims	*	Minus	**		x 18.00	
Indep. Claims	*	Minus	***		x 84.00	
MULTIPLE DEPENDENT CLAIM FEE					\$280.00	
FEE FOR CLAIM CHANGES						

- * If the entry in Column 2 is less than the entry in Column 4, write "0" in Column 5.
- ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.
- *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space.



27810

PATENT TRADEMARK OFFICE

FEB 15 2002

STILIANOS G. ROUSSIS, et.al.
U.S. Serial No. 10/014,361
Page 2

The total fee for this Declaration, including claim changes and any extension of time is calculated to be
\$ 130.00.

☒ Charge \$ 130.00 to Deposit Account No. 05-1330.

☒ The Commissioner is hereby authorized to charge any additional fees under 37 CFR 1.16 and 1.17 which may be required by this paper, or credit any overpayment, to Deposit Account No. 05-1330. A duplicate copy of this Form is enclosed.

2/06/02
Date of Signature

Charles J. Brumlik
Attorney or Agent of Record
CHARLES J. BRUMLIK

Post Office Address
(to which correspondence is to be sent):

ExxonMobil Research and Engineering Company
P. O. Box 900 / Clinton Township
Annandale, New Jersey 08801-0900

CJB:efs:February 6, 2002:10-014,361(Filing Missing Parts-Declaration).doc

Registration No. 42,367

☒ Pursuant to 37 CFR 1.34(a)

RECEIVED
CENTRAL FAX CENTER

FEB 15 2006

"PATENT"

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)	
STILIANOS G. ROUSSIS, et.al)	Before the Examiner
)	Not Assigned
U. S. Serial No. 10/014,361)	
Filed: December 11 2001)	
ATMOSPHERIC EQUIVALENT TEMPERATURE ANALYSIS)	Group Art Unit
)	1764

Commissioner for Patents
Washington, DC 20231

Sir:

NOTICE TO FILE MISSING PARTS UNDER 37 CFR 1.53(b)

Attached herewith, in reply to the Notice to File Missing Parts of Non-Provisional Application dated January 18, 2002, is an executed Declaration for the above-referenced Patent Application.

I hereby certify that I have a reasonable basis for believing that this correspondence will be deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231, on <u>February 7, 2002</u> .		
Date of Deposit		
GAIL F. SUMMERFIELD	<i>Gail F. Summerfield</i>	<u>2-7-02</u>
Name of attorney or agent	Signature	Date of Signature



27810

PATENT TRADEMARK OFFICE

STILIANOS G. ROUSSIS, et.al
U.S. Serial No. 10/014,361
Page 2

Respectfully submitted,



Charles J. Brumlik
Attorney for Applicant(s)
Registration No. 42,367
Telephone No. (908) 730-3634

☒ Pursuant to 37 CFR 1.34(a)

ExxonMobil Research and Engineering Company
P. O. Box 900 / Clinton Township
Annandale, New Jersey 08801-0900
CJB:gfs:February 6, 2002



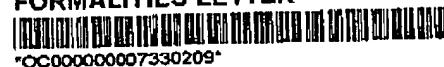
UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/014,361	12/11/2001	Stilianos G. Roussis	CJB-0109

CONFIRMATION NO. 1159

FORMALITIES LETTER

ExxonMobil Research and Engineering Company
P.O. Box 900
Annandale, NJ 08801-0900

Date Mailed: 01/18/2002

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.
A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 130.

*A copy of this notice **MUST** be returned with the reply.*


Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

RECEIVED
CENTRAL FAX CENTER"PATENT"
FEB 15 2006AMENDMENT TRANSMITTAL FORM

In re application of: Stilianos G. Roussis et al
 U. S. Serial No.: 10/014,361
 Filed: December 11, 2001
 For: ATMOSPHERIC EQUIVALENT
 TEMPERATURE ANALYSIS IN
 HYDROCARBON PROCESSING

) Before the Examiner
) Prem C. Singh
)
) Confirmation Number: 1159
) Group Art Unit: 1764
) Family Number: P2000J098 US2

Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transmitted to the
 Commissioner for Patents facsimile number 1-571-273-8300 on the date shown below.

KATHLEEN A. KUNA

Kathleen A. Kuna

February 15, 2006

Type or print name of person signing certification

Signature

Date

Transmittal herewith is an amendment/response in the above-identified application.

Petition for extension of time pursuant to 37 CFR 1.136 and 1.137 is hereby made, if and to the extent, required. The fee for this extension of time is calculated to be \$ 1590.00 to extend the time for filing this response until March 13, 2006.

The fee for any changes in number of claims has been calculated as shown below.

CLAIMS AS AMENDED						
(1)	(2) Claims Remaining After Amendment	(3)	(4) Highest Number Previously Paid For	(5) Present Extra	(6) Rate	(7)
Total Claims	*	Minus	**		x 50.00	
Indep. Claims	*	Minus	***		x 200.00	
MULTIPLE DEPENDENT CLAIM FEE					\$ 360.00	
FEE FOR CLAIM CHANGES						

- * If the entry in Column 2 is less than the entry in Column 4, write "0" in Column 5
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space.

The total fee for this AMENDMENT IN RESPONSE TO FIRST OFFICE ACTION and TERMINAL DISCLAIMER, including claim changes and any extension of time is calculated to be \$ 1720.00.

☒ Charge \$1720.00 to DEPOSIT ACCOUNT NO. 05-1330.

☒ The Commissioner is hereby authorized to charge any additional fees under 37 CFR 1.16 and 1.17 which may be required by this paper, or credit any overpayment, to DEPOSIT ACCOUNT NO. 05-1330.

Feb 14, 2006
 DATE OF SIGNATURE

Post Office Address [to which correspondence is to be sent]
 ExxonMobil Research and Engineering Company
 P. O. Box 900
 Annandale, New Jersey 08801-0900

[Signature]
 ATTORNEY OR AGENT OF RECORD

GARY P. KATZ

Registration No. 46,099

☒ Pursuant to 37 CFR 1.34(a)

Facsimile Number: (908) 730-3649



27810

PATENT TRADEMARK OFFICE

ALLOCCA:kkk
 2/14/2006